

MATERIAL SAFETY DATA SHEET – 16 Sections

SECTION 1 – CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Identifier #0047/#0048 Disposable Footwarmers			[WHMIS Classification]	
Product Use				
Manufacturer's Name		Supplier's Name Coghlan's Ltd.		
Street Address		Street Address 121 Irene Street		
City	Province	City Winnipeg	Province Manitoba	
Postal Code	Emergency Telephone	Postal Code R3T 4C7	Emergency Telephone 1-877-264-4526	
Date MSDS Revised February 1, 2010	MSDS Prepared By		Phone Number (204)284-9550	

SECTION 2 – COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Ingredients (specific)	%	CAS Number	LD ₅₀ of Ingredient (specify species and route)	LC ₅₀ of Ingredient (specify species)
Iron Powder	50%	7439-89-6	LD50 30g/Kg LD50 20g/Kg	ORL-RAT ORL-GPG
Active Carbon	25%	7440-44-0	LD50 440mg/Kg	IVN-MUS
Water	20%	7732-18-5	Not established	
Sodium Chloride	5%	7647-14-5	Not established	

SECTION 3 – HAZARDS IDENTIFICATION

Route of Entry <input checked="" type="checkbox"/> Skin Contact <input type="checkbox"/> Skin Absorption <input checked="" type="checkbox"/> Eye Contact <input type="checkbox"/> Inhalation <input type="checkbox"/> Ingestion
[Emergency Overview]
[WHMIS Symbols]
[Potential Health Effects] Don't contact directly with your body. It may cause low-temperature burns but without a sense of ache whenever contacting it with your body for a long time. Please be careful.

SECTION 4 – FIRST AID MEASURES

Skin Contact Do not open inner pack. If contents come into contact with skin, mouth or eyes, flush instantly with copious amounts of cold water and consult a physician. If inhaled, remove to fresh air and if breathing becomes difficult, call a physician. Eyes: flush with copious amounts of water for at least 15 mins. Assure adequate flushing by separating the eyelids with fingers. Call a physician.
Ingestion

[Optional, not required under WHMIS]

SECTION 5 – FIRE FIGHTING MEASURES

Flammable

Yes

No

If yes, under which conditions?

Means of Extinction

Water spray. Carbon dioxide: dry chemical powder. Use extinguishing media appropriate to surrounding fire condition.

Flashpoint (°C) and Method

Not flammable

Upper Flammable Limit (% by volume)

Lower Flammable Limit (% by volume)

Autoignition Temperature (°C)

842°F based activated carbon

Explosion Data – Sensitivity to Impact

Explosion Data – Sensitivity to Static Discharge

Hazardous Combustion Products

Emits toxic fumes of carbon monoxide and carbon dioxide under fire conditions.

[NFPA] Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes and to protect against the hazardous effects of the products of combustion or oxygen deficiency.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Leak and Spill Procedures

Wear protective equipment. Sweep up, place in a bag and hold for waste disposal. Ventilate area and wash spill site

after material pick up is complete.

SECTION 7 – HANDLING AND STORAGE

Handling Procedures and Equipment

No special clothing, equipment or ventilation are required under normal use and handling.

Storage Requirements

Store in a cool, dry environment. DO NOT break the envelope. Avoid breathing dust. Avoid contact with eyes and

skin by contents. Do not take internally.

SECTION 8 – EXPOSURE CONTROL / PERSONAL PROTECTION

Exposure Limits

ACGIH TLV

OSHA PEL

Other (specify)

Specific Engineering Controls (such as ventilation, enclosed process)

N/A

Personal Protective Equipment

Gloves

Respirator

Eye

Footwear

Clothing

Other

If checked, please specify type

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Physical State Fine odorless, tasteless black powder	Odour and Appearance	Odour Threshold (ppm)
Specific Gravity (H ₂ O = 1) N/A	Vapour Density (air=1)	Vapour Pressure (mmHg) 23.7 mmHg (77°F) based on water
Evaporation Rate	Boiling Point (°C) 212°F based on water	Freezing Point (°C)
pH	Coefficient of Water/Oil Distribution	[Solubility in Water] Slightly soluble

SECTION 10 – STABILITY AND REACTIVITY

Chemical Stability <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If no, under which conditions?
Incompatibility with Other Substances <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If yes, which ones? Acid, Oxygen, strong oxidizing agents, Halogens, Phosphorus
Reactivity, and under what conditions? N/A	
Hazardous Decomposition Products Contact with oxygen or air may cause decomposition of contents with release of heat. Keep tightly closed within the envelope.	

SECTION 11– TOXICOLOGICAL INFORMATION

Effects of Acute Exposure Activated charcoal appears to be non-toxic when given by mouth, although regular ingestion may affect normal gastrointestinal absorption. Causes eye and skin irritation. Material is irritation to mucous membranes and upper respiratory tract. To the best of our knowledge, chemical and toxicological properties have not been thoroughly investigated.	
Effects of Chronic Exposure	
Irritancy of Product Can be an irritant to mucous membranes and upper respiratory tract.	
Skin Sensitization	Respiratory Sensitization
Carcinogenicity – IARC	Carcinogenicity – ACGIH
Reproductive Toxicity	Teratogenicity
Embryotoxicity	Mutagenicity
Name of Synergistic Products/Effects	

SECTION 12 – ECOLOGICAL INFORMATION

[Aquatic Toxicity]

No

SECTION 13 – DISPOSAL CONSIDERATIONS

Waste Disposal

Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

SECTION 14 – TRANSPORT INFORMATION

Special Shipping Information

No

PIN

TDG

[DOT]

[IMO]

[ICAO]

SECTION 15 – REGULATORY INFORMATION

[WHMIS Classification]

No

[OSHA]

[SERA]

[TSCA]

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by CPR.

SECTION 16 – OTHER INFORMATION

The data given here is based on current knowledge and experience. The purpose of this Safety Data Sheet is only to describe the product. The data does not signify any warranty with regard to the products' properties.